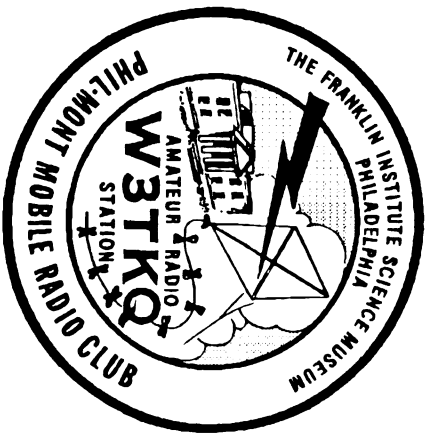
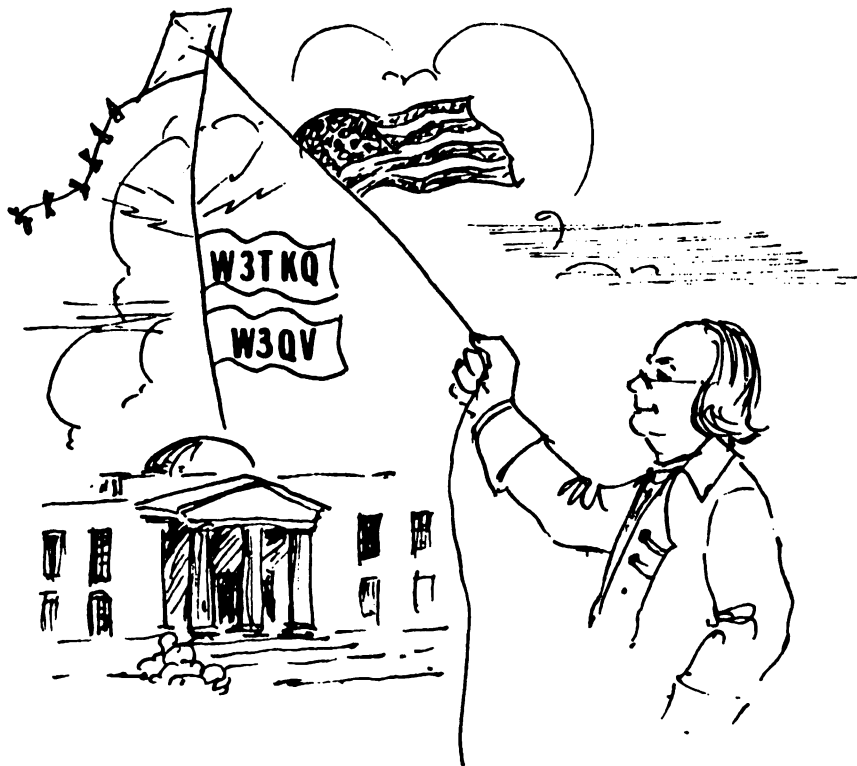


FIRST CLASS MAIL



A Publication of
THE PHIL-MONT MOBILE RADIO CLUB, INC.
2113 EDGEHILL DRIVE, FURLONG, PA 18925

THE BLURB



***OLD BEN WAS NOT ONE TO
WASTE ENERGY OR OPPORTUNITY***

**Center-city will soon have its own
repeater input, courtesy of ole Ben!**

is published monthly by, and for, the members of **The PHIL-MONT MOBILE RADIO CLUB, INC.** whose purpose is to promote Amateur Radio in general, and Mobile Radio in particular. Copying and quoting is permitted with a credit line. We gladly exchange publications with other amateur radio clubs; requests should be sent to the Editor. BLURB subscriptions are available to non-members for \$10.00 addressed to the Treasurer. The club meets at 7:30 PM on the first non-holiday WEDNESDAY of every month at The Franklin Institute Science Museum, Benjamin Franklin Parkway at 20th Street, Philadelphia. Use the Winter Street (north side) entrance.

ALL VISITORS ARE WELCOME!

Amateur Radio License Examinations - the first non-holiday Thursday of every month at The Franklin Institute Science Museum - doors close at 6:30 PM-SHARP!

CLUB INFORMATION

24-Hour Information Number at W3TKQ - (215) 448-1139
 Repeater frequencies: 147.03 (Bucks County input requires 131.8Hz PL)
 444.80 MHz (186.2 Hz PL)
 Simplex frequency: 147.51 MHz
 Packet BBS frequency at W3TKQ-10: 145.05 MHz
 Mailing Address: P.O. Box 88, Abington, PA 19001

STATIONS

W3QV - 147.03 MHz. Repeater - 8200 Ridge Avenue, Philadelphia, PA - Trustee W3BBB
 W3RQZ - 1176 Old York Road, Abington, PA - Trustee W3VVS
 W3TKQ - The Franklin Institute Science Museum, Philadelphia, PA - Trustee W3PWG
ALL LICENSED AMATEURS ARE WELCOME TO OPERATE W3TKQ.

OFFICERS

PRESIDENT: N3FVI, Bill Popovic, 343 Lemonte Street, Philadelphia, PA 19128 (215) 487-9472
 VICE PRESIDENT: N3GLH, Brad Swanson, 517 Cresheim Valley Road, Wynmoor, PA 19118 (215) 836-2475
 SECRETARY: WU3I, Steve Hoch, 4638 Oakland Street, Philadelphia, PA 19124 (215) 535-8061
 TREASURER: KB3IV, Ed Masarsky, 15 Poe Avenue, Wyncote, PA 19095 (215) 572-5238

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W3BBB (92); KC2HX (92); AK2I (93); W3IIM (A); K3KUD (A); N2RM (93); W3RM (A)

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DX:	-----	Publicity:	-----	W3TKQ:	W3PWG
Education:	N3FTZ	Refreshments:	N3FVI	Welcome:	-----

Special Liaison to The Franklin Institute Science Museum: AK2I

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N3DHI, WB3KOJ

Publisher/Typist: W3IIN

DEADLINE: To be assured of publication in the current month, all copy MUST be in the hands of the Editor at the Bored of Directors' Meeting!

NET SCHEDULE

SUNDAY	09:30	147.030	MHz FM	"SUNDAY MORNING 2 METER NET"
	10:00	28.993	MHz SSB	"10-ON-10 NET"
	10:20	3.993	MHz SSB	75 METER NET
TUESDAY	20:00	147.030	MHz FM	CW PRACTICE NET RESUMES SEPT 15
LAST WED	20:00	147.030	MHz FM	W3TKQ OPERATORS' NET



APPLE BYTES

Don Gordon, WB3KOJ

JULY BIRTHDAYS

02 Alice Popovic (XYL N3FVI)
 04 Marion Blum (XYL N3AXJ)
 06 Edna McVaugh (XYL W3LEM)
 09 Donna Rush (XYL WT3X)
 10 Natalie Gordon - WB3KOH
 Lew Lewis - AG2H
 Lou Rulli - WB2WOM
 12 Grace Smith (XYL K3GBA)
 14 Bill Clayton - K3HIE
 Larry Clifford - W3UY
 20 Irv Miller - K3KNH
 23 Theresa Henderson (XYL KA3MHO)
 24 Peggy Snyder (XYL W2HSA)
 25 Jinny Haring - W3IIN
 27 Jules Markowitz - N3IZZ
 31 Steve Hoch - WU3I

HELP PHIL-MONT

Are you planning to join the ARRL or renew your current membership?
Remember: The ARRL is more than just a magazine subscription!
 Help Phil-Mont by joining or renewing through the club.
 Contact Ed., KB3IV, for the details.

COCKTAIL PARTY FACT

13.8% OF PHIL-MONT MEMBERS LIVE IN 3 ZIP CODES
 ZIP CODE 19128 - 8
 ZIP CODE 19018 - 6
 ZIP CODE 19083 - 6

"DON'T TAILGATE—WAIT"—for the courtesy chime!

MARYLAND HAMFEST



AND COMPUTER FEST



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SUNDAY, JULY 26, 1992

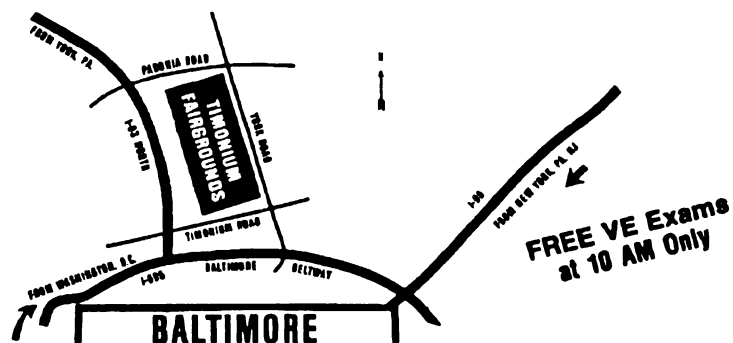
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PASSPORT REQUIRED OF W3BBB

The PREZ SEZ

Bill Popovic, N3FVI



Phil-Mont is full of good news this month. The turn-out for family night was fantastic (about 200), as was the bike race turn-out. The center-city repeater input is under construction. The new Mosley 67B beam antenna is in for W3TKQ, and everyone is impatiently waiting for the July issue of QST to see their station on the front cover.

Thanks to the following for their help with the bike race: N3KWR, N3ZO, KB3IV, N3GMH, WA3CRM, WU3I,

N3FTC, N3ELS, W3YHV, N3GEN?, KA3EBC, N3KUS, WB3JHX, AA2FU, ND3Q, KB3CT, N3IEI, KA3VIL, N3LWC, N3LQT, NS3Z, W3YLT, AK2I, N3LMV and KA3BET.

It has been a great month for Phil-Mont. Congratulations and thanks to all involved in the many club projects. I don't know how we can outdo this month, but I'm looking forward to trying.

73 and have a happy, healthy and safe summer.

*Sam's
CORNER*

JIM N3GEN
FAILED TO RETURN
WU3I'S CALL... TOO
BUSY TESTING AIR
SICK BAGS-ITS
RUMORED HE
WILL RIDE WITH
BILL N3FVI NEXT
YEAR



LOOKAHEAD

June 27-28 FIELD DAY

July 1 **General Meeting Program:**
DIGITAL VOICE ENCRYPTION
Brad Swanson, N3GLH
July 2 License Examinations
July 12 American Cancer Society Bikeathon
July 15 Directors' Meeting at W3BBB's

Aug 5 **General Meeting Program:**
AMATEUR SATELLITES
Al. Tribble, W3STW
Aug 6 License Examinations
Aug 19 Directors' Meeting at
W3IIM & N's

Sep 2 **General Meeting**
Sep 3 License Examinations
Sep 16 Directors' Meeting at
N3GLU & KB3IV's

HAMFESTS

Jul 26 TIMONIUM, MD
BRATS

Aug 9 WARRINGTON, PA
Mid-Atlantic ARC

Aug 16 EASTON, PA
Delaware Lehigh ARC

GEORGETOWN, DE
Sussex ARA

Aug 23 MULLICA HILL, NJ
Gloucester County ARC

Oct 4 GARDEN STATE RACETRACK
Packrats

Oct 18 BENSALEM, PA
Penn Wireless Assn.

Oct 25 DUBLIN, PA
R.F. Hill ARC

V.E. TEST LOCATIONS

Confirm all information, in advance, with the contact person. Licensed applicants must bring a their original license and one photocopy of it. All applicants, including children, must present positive ID. Also bring the original, and a copy, of any Certificate of Successful Completion needed to prove current status. The ARRL VEC's 1992 test fee is \$5.40; there is no charge for a Novice test.

Monthly, 1st Thursday
The FRANKLIN INSTITUTE
Dusty Rhoads, ND3Q
(215) 482-0386
(215) 879-0505

Monthly, 3rd Thursday
BELLMAWR, NJ
Bill Helmatag
(609) 546-7710

Irregularly
BRYN MAWR
Bob Lees
(215) 265-6032

Monthly, 2nd Wednesday
HUNTINGDON VALLEY
Phil Isard, WF3W
See article on next page

Monthly, 1st Thursday
LEVITTOWN
Dave Heller, K3TX
(215) 946-1040
(215) 736-3333

Monthly, 3rd Wednesday
MORRISVILLE
Dave Munson, NM3K
(215) 788-7515

Monthly, 1st Monday
POTTSTOWN
Warren Erdman K3ZXQ
(215) 679-5764

Monthly, 3rd Monday
TELFORD
Warren Erdman K3ZXQ
(215) 679-5764

Monthly, Last Saturday
UNIVERSITY OF PA
Jeff DePolo, WN3A
(215) 898-8538
(215) 386-7199

Odd Months, Last Wednesday
WARMINSTER
Tom Michaud, WA3TQJ
(215) 343-3494

I drove for hours,
'till the morning sun had come up.
So I started for home,
two sips of coffee remained in my cup.

Once back at my QTH,
I walked into the shack,
and there right before me,
a comfortable chair for my back.

I couldn't believe it,
as I gave the chair a try.
Eventually finding a QSL card,
printed AK2I.

Now I had heard he was a legend,
a fearless leader and all.
I thought these just stories,
some big and some tall.

But here in my eyes,
was my much needed chair.
A miracle I'm told,
which is beyond compare.

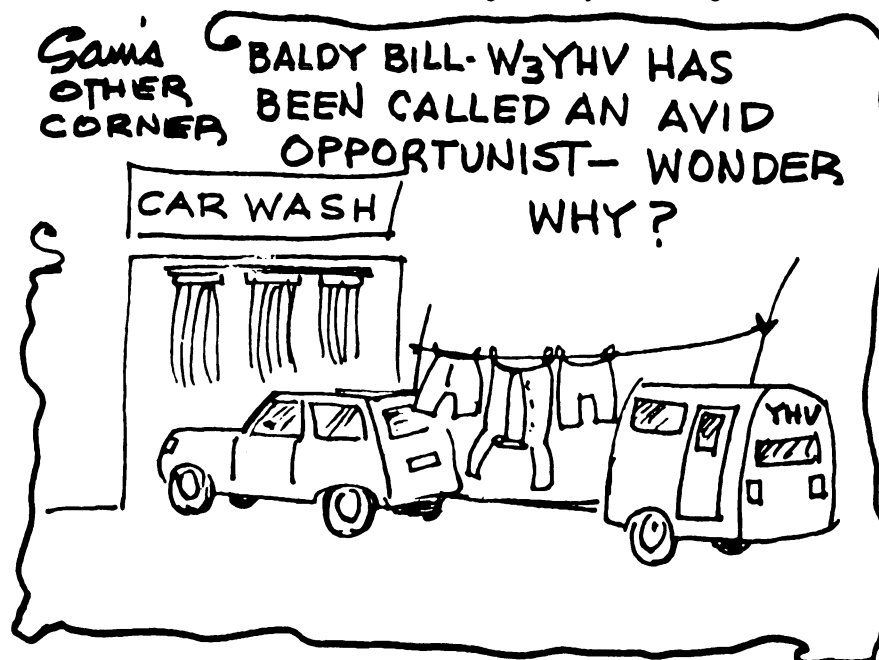
And somewhere out there,
at least in Cherry Hill,
was the man known as Jake,
selling two dollar bills.

Three for ten dollars,
it won't get better than that,
AK2I makes a killing,
and the legend is a fact.

He gets what he wants,
and settles for nothing less.
So if you have something he desires,
get prepared for the stress,

It's not just for himself,
but for all Phil-Mont's good.
That's AK2I,
modern day Robin Hood.

Editor's reply: If you're brave enough to mail it, we're brave enough to print it! Methinks many will not get the subtle message on the first reading!



Dear Editor:

I am a recently accepted member to the Phil-Mont Mobile Radio Club, and appreciate being included in an organization that is fun and educational at the same time.

As you know by my letter that was printed in the May Blurb, I am incapacitated by a leg injury, and spend much of my time writing novels while listening to the radio. After months of listening to the repeater I decided to compile this little poem with the intention of making a humorous statement. I hope I have succeeded.

I'm not sure if this is the type of material that might end up in the Blurb, but in any case, I will submit it to you. Again, thank you, and all the members of Phil-Mont, for the help.

/s/ Bob Wilcox, KE3CZ (N3LIN)

'Twas the night before field day,
and all through the shack,
I couldn't find a chair
that felt comfortable to my back.

I grabbed the HT,
and headed to the car.
I knew with the rubber duckie,
I wouldn't get out too far.

With a full tank of gas,
and a few dollars to boot,
I started out on the streets,
with nothing better to do.

Without really thinking,
I had magically found my way
to The Franklin Institute,
20th and Benjamin Franklin Parkway.

The building was massive,
its pillars pure white,
and around the back of it,
antennas sparkled in the night.

I thought at first no,
but then what harm could it do?
I keyed the Phil-Mont repeater,
and called W3TKQ.

A voice came back strongly,
followed by a courtesy chime.
At last a solid contact,
and a fellow club member of mine.

"Good evening" I said,
followed by my call sign.
I was informed by the operator,
that I was making the repeater just fine.

"QSL" I replied,
almost saying ten four.
"I'm outside The Institute,
I'm right on your door."

"Holy crow, man," said the operator.
"What are you doing there?"
I answered "I had to get out of the house,
I couldn't find a good chair."

"A chair is all you need?"
He said with a laugh.
"Your problem my friend,
Is you don't know how to deal with riff raff."

He signed-off quickly,
and wouldn't come back.
I called and I called,
but he must have left the shack.

MINUTES

JUNE GENERAL MEETING

Steve Hoch, WU3I, Secretary



JUNE 3—FAMILY NIGHT

Family night—WOW—who has that much family!!! Any how, back to no business, new or old! The night was PMRC's annual Family Night at The Franklin Institute. Showing in the Omniverse Theatre was ANTARCTICA. Jake, AK2I, had proposed that we surpass last year's total of 97 members and guests. Well, you know how Jake is when he gets started. Jake got the ball rolling early, and SUCCESS (you expected anything less?! 100 more than last year! 197 viewed the film. You could see Director of the Omniverse, and ham operator Derrick Pitts' smile from across town. There was no sign-in sheet for members or visitors, however here is a listing available of the hams and their groups.

KD4OYN-3, AA2FU-3, AK2I-4, K3JO-2, K3JR-2, K3NYN-1, K3PHC-1, K3VXU-2, K3YPH, DOROTHY-2, K3YUN-2, KA3BET-6, KA3WWK-11, KB2ERL-3, KB3CT-3, KB3IV-1, KC2HX-5, KD3QE-4, KE3CJ-2, N2JFF-1, N2JWQ-1, N2RM-2, N3AN-1, N3AXJ-4, N3FTY & N3FTZ-7, N3FVI-3, N3GEN-3, N3GLH-2, N3GMH-6, N3ISE-2, N3IZZ-2, N3JUA-2, N3KGG-2, N3KGH-4, N3KUS-1, N3LVT-2, N3LVT-2, N3LWC-2, N6IFK-2, NA2E-1, NS3Y-1, NU3Y-2, W3AOA-34!, W3DSG-2, W3IIM & W3IIN, W3IRS-2, W3KHW-1, W3LKI-2, W3PST-2, W3PXY-4, W3RM-3, W3STW-1, W3VVS-4, W3YLT-2, WA3AUN-2, WA3TPH-1, WB3JHX-1, WB3JUA-2, WB3KOH & WB3KOJ, WT3X-2, WU3I-10.

Thanks to all for making this such a success. It was nice to see all of the people who don't usually make it to the general meetings (that's you Don).

VE ARRESTED AS PHONEY DOCTOR

W5YI Report—June 1, 1992

According to the Bucks County Courier Times, *Phillip I. Isard, WF3W*, 43 of Bethayres, PA has been arrested and charged with two counts of unauthorized practice of medicine. He was released on a \$50,000 personal recognizance bond, Andrea Hudak, Assistant District Attorney told us on Friday May 22nd.

It seems that Arnold Smith, KA3NTZ of Southampton, PA tutored Isard in ham radio fundamentals. The training took place in Smith's study and Isard went from no license to Extra Class in 11 weeks.

Isard said he was a medical doctor who no longer had a practice. Smith mentioned that his wife, Shirley suffered from a circu-

latory problem. Isard, complete with little black bag and stethoscope, placed the instrument on her chest and "tapped her back." Isard also met Smith's daughter at a Penn Wireless Club banquet, and later counseled the woman at her home about a complaint she had.

A Yardley, PA woman complained of headaches and a low grade fever four months ago. "He took her pulse by placing a finger on her neck, temperature and blood pressure." She was advised to have bone marrow surgery, increase protein and starch intake, and stop eating fruit. Isard never asked to be paid.

After a dispute on two meters, Smith became suspicious and asked his family

doctor about Isard who checked with the American Medical Association. (sic) The AMA had no record of a Dr. Phillip Isard, and neither did the state licensing bureau in Harrisburg.

Smith then telephoned Isard's mother, and informed her of what he had discovered, and offered to send her a copy of the report from Harrisburg. She said that her son had never been a doctor. Nine days later, Smith received a summons to appear in court to answer to charges filed by Isard of harassment by communications and disorderly conduct.

Smith answered the summons by going out and soliciting depositions from people that Isard had treated as a physician. He sent these to the attorney general's office in Harrisburg. Smith also filed a complaint with Alan M. Rubenstein, Bucks County District Attorney.

We spoke to Isard on Friday, and he denied the story that was carried in the Courier Times. A phone call to the District Attorney's office confirmed the story. "I believe he faces two years in prison, and not four as reported in the paper. That's the maximum. [The charge] is a misdemeanor. A hearing has been scheduled..." Andrea Hudak told us.

There have also been questions about some of the test sessions in which Isard has participated, and he has been discredited as a volunteer examiner.

Ernie Woods Arrested

According to radio and TV news, Ernest Woods has been detained in San Diego on various charges including the murder of his mother in Philadelphia.

It is believed this is the same person reported last year in [Penn Wireless'] X-MTTTER and elsewhere, who had been charged with malicious interference with two meter repeaters, Norristown fire and Pennsylvania State Police.

Penn Wireless Association's newsletter

Former Phil-Mont Member Dies

Robert R. Sutter, of 2015 Hampstead Circle, Sun City Center, FL 33570, formerly of Abington, died March 22. He was 74.

Mr. Sutter was retired from Clement and Muller Beer Distributor in Northeast Philadelphia. He had been active in Civil Defense in Abington, and was a sponsor of Girl Scout Troop 1554.

He was a ham radio operator (W3SOB), and a member of Phil-Mont Radio Club and York Road Radio Club. He was a member of Our Lady Help of Christians Church, Abington.

Mr. Sutter is survived by his wife Mary; a daughter Johana; and three sons, Bruce, Robert and Rudy.

W3VVS

BLURB Articles

Articles of general interest are always welcome. Authors: you can make the editor's job a lot easier if you can send your article via computer bulletin board (ask for procedure) or via IBM compatible diskette. We have the ability to convert the output of most commonly used word processing programs to our preferred format—ASCII.

If you don't use a computer for writing your letters, typewritten letters (please use a good ribbon) are the next best format. If your typing is distinctive, (see article by AB3C, done on an Apple, no doubt) we will use it as is. If, however, it is standard typewriter output, it will be readable by our scanner and optical character recognition (OCR) software (unless you scribble all over it).

Lastly, our old dependable typist (Jinny's not old, just dependable) will transcribe your input into something our Aldus Page-maker software can understand.

86TH MONTHLY VE SESSION STATISTICS JUNE

13 candidates pass 15 elements
4 new amateurs plus 5 upgrades

VE team members:

Dusty Rhoads, ND3Q, Chairman

Ted Lada, N3FTZ; George Starks, AA2FU; *Steve Hoch, WU3I*; Ben Roeshman; W3LKI; Joel Kleinguenther, KA3SWU; John Carbonaro, WA3TPH; Pat Rush, WT3X

AMATEUR LICENSE EXAMS HELD ON THE FIRST
NON-HOLIDAY THURSDAY OF EVERY MONTH
Registration begins at 6:00 PM

Doors close at 6:30 PM sharp

THE FRANKLIN INSTITUTE
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For Information Call ND3Q at
(215) 482-0386 or 879-0505
Accessible by the handicapped.



Engineers (COE) meet with pilot associations, port authorities, and other user groups to explain the changes and solicit their views.

- c. Recreational boating: Use boat shows, U.S. Power Squadrons and U.S. Coast Guard Auxiliary meetings to explain and promote the metric process.
- d. Advance notification (1 year) of charts being converted to metric units of measurement so that mariners can plan accordingly. Two months notification will be given prior to actual printing and distribution.
3. Metrication of C&GS' marine navigation products will be closely coordinated with the USCG, the COE, the De-

fense Mapping Agency, and other groups and organizations representing the regional marine navigation community interests.

4. Metric conversion will be implemented in logical geographic groupings of charts to minimize the necessity for the transiting mariner to switch back and forth from English to metric products.

Questions and/or comments on C&GS' conversion policy to metric unit nautical charts and related nautical products should be submitted to the following address:

Director
Coast and Geodetic Survey
Attention: N/CG22
National Ocean Service, NOAA
Rockville, Maryland 20852
USCG Local Notice to Mariners



NEW MEMBER APPLICATIONS

CALL: **N3MDQ**
 NAME: **Ralph Earl**
 HANDLE: **Ralph**
 CLASS: **Technician**
 ADDRESS: **Thatcher Court #15**
251 W. Montgomery Ave.
Haverford, PA
19041

HOME PHONE: **(215) 896-7836**
 BUSINESS PHONE: **(215) 751-7636**
 OCCUPATION:
 INTERESTS: **Helping-out**

CALL: **KA3NKT**
 NAME: **Gerald Shoaf**
 HANDLE: **Jerry**
 CLASS: **Technician**
 ADDRESS: **321 Harvard Ave**
Broomall, PA
19008

HOME PHONE: **(215) 356-1482**
 BUSINESS PHONE: **(215) 587-7866**
 OCCUPATION: **Engineer**
 INTERESTS: **W3TKQ,**
Repeater/technical

CALL: **KA3VEJ**
 NAME: **Eddie Loewenstein**
 HANDLE: **Eddie**
 CLASS: **Technician**
 ADDRESS: **7376 Ridge Ave.**
Philadelphia, PA
19128

HOME PHONE:
 BUSINESS PHONE: **(215) 483-9896**
 OCCUPATION: **Veterinarian**
 INTERESTS: **Talking on the radio**

Here we go again!

(Let's see, how many liters in a gallon?)

NOAA COAST AND GEODETIC SURVEY POLICY ON METRICATION OF NAUTICAL CHARTS January 1992

The "Omnibus Trade and Competitive-ness Act of 1988" (P.L. 100-418, August 23, 1988, 102 Stat, 1107, Sec. 5164) amends and reaffirms the "Metric Conversion Act of 1975" and the systems of weights and measures as the preferred U.S. System. This commitment was further strengthened by Executive order 12770 dated July 25, 1991, in which the President designated the Secretary of Commerce to direct and coordinate efforts by Federal departments and agencies to implement government metric usage."

In response to these directives, and to the standards adopted by the International Hydrographic organization, the Coast and Geodetic Survey is committed to the systematic conversion of its suite of nearly 1,000 nautical charts and nine Coast Pilot volumes to the metric system. This conversion, estimated to require 10-15 years, will begin in 1992 as follows:

1. The safety of life and property is C&GS' primary concern.
2. To promote a safe transition to the metric system, a public education/out-reach program will be implemented which will include:
 - a. Distribution of a metric brochure explaining the policy and specific changes in the nautical products.
 - b. Commercial shipping: Send delegations to geographic areas prior to scheduled conversion and in cooperation with the U.S. Coast Guard (USCG) and U.S. Army Corps of

MINUTES

Steve Hoch, WU3I, Secretary

JUNE DIRECTORS' MEETING

On June 17th, the meeting was called to order at 8:15 pm by N3FVI at the home of N3GLH and Vikye. Attending were W3s IIM, IIN, BBB, N3s GLH, DHI, FVI, KB3IV, K3KUD, N2RM, AK2I and WU3I.

KB3IV gave the treasurer's report with expenses at four times income. The club still remains solvent. N3FVI reported that extra munchies were needed for the General meeting (see minutes of that meeting). Ed stated that the state of the treasury was about average (who can argue he's been treasurer sooo long) for this time of the year.

W3IIM reported that the *BLURB* was doing well; keep those cards, letters and articles coming folks. Jack also reported that Penn Wireless' repeater is now back on 145.25.

W3IIN presented one new member to be voted on: W3STW, Al Tribble. KB3IV made the motion to accept, WU3I seconded, the vote was unanimous. There will be at least two new-member applications to be published next month in the *BLURB*.

N3GLH (who?) reported on future programs: for July—2-way Voice Secured Communications, and August—W3STW on Satellite Communications.

W3BBB reported that the repeater, with the new input now in Southampton, was working well. The center city input is in the works and will be installed when finished and logistics are worked out. N3DHI has finished new "brag" tapes for the repeater; they will be installed soon. Jim also mentioned the PL tone will be on soon on UHF, for those who would like to decode protect their receivers.

N3FVI reported on special events. The Corestates bike race went very well this year with 27 volunteers on duty. THANKS TO ALL!!! The Cancer Society Bikeathon is on

July 12, and is a one-day event. If you can help out, contact KA3EBC, Charlie, or N3FVI, Bill.

AK2I (covering half my notes) reported on W3TKQ. The HAL RTTY unit has been sold to W3STW. The Franklin Institute has halted the donation collecting for the hats, patches, and shirts, however they bought out the inventory of the hats, and patches to sell in their store. Shirts—sizes large & xlarge—are available through Jake, AK2I for the members and operators. The Institute made a donation to the "W3TKQ account" in appreciation of our involvement with the adult instructional classes that PMRC members taught this spring. N3FTZ has offered to handle the classes again in September; assisting will be K3YUN.

Jake reported (yes him still) that we missed by a month the list for the shuttle, but that the ARRL would put us on the list for 1993. Now that the HAL unit is gone, the Drake R-8 is temporarily in position 6 with the R-7 antenna connected. The Carolina Windom was installed and is working well for 10 through 160 meters, and is on the Kenwood 450 for now. The National Traffic System (NTS) was instituted at W3TKQ with a training class for operators, and is working well. The Mosley PRO 67 beam antenna is completely assembled and awaiting the installation of the torsion cables on the tower. CHI Institute in Southampton, Bucks County (home of our new off-site receiver) donated a commercial tripod for the ATV setup at W3TKQ. Last (finally), Jake said that he needs more ACTIVE volunteers.

K3KUD made a motion to close at 9:36 pm; WU3I seconded; there were no dissenting votes (they were all eating).

Many thanks to Brad & Vikye for their hospitality

PACKET AT THE FRANKLIN INSTITUTE

a primer by WU3I

To connect with the W3TKQ Bulletin Board System (BBS) you must connect with one of the nodes listed here:

PHL2 144.91 MHz PHILA AIRPORT
 PHL3 223.44 MHz " "
 PHL4 441.00 MHz " "

For this example we will use PHL2 node, and assume you are using a dumb terminal.

First, at the CMD: prompt type: C PHL2 and press the <enter> key. You will receive confirmation that you are connected to the node. Then type C W3TKQ and press <enter>, and you will receive the confirmation that you are connected to the BBS.

The prompts will guide you through, and after you disconnect from the BBS you will be reconnected to PHL2. At this point you would enter Q to exit the node and return to the CMD: prompt.

The Direct Connection

You can also connect with the mailbox to leave notes for the operators or others, by connecting with W3TKQ-10 on 145.05. This unit will be on as available during the operating times of the station, as the 2M rig is also used by the ATV station for intercom purposes. However this mailbox will be on all night and

whenever the station is unattended. The example shown here assumes the station rig is tuned to 145.05, and the operator is using a dumb terminal.

To connect to W3TKQ-10 at the CMD: prompt type: C W3TKQ-10 and press <enter>. You will get the connect acknowledgment. The mailbox has a 12,000 byte capacity, and will prompt you on its usage.

Connecting with a live operator, for keyboard-to-keyboard contacts, can also be accomplished on 145.05, when the unit is available and not being used for ATV "intercom." The callsign of this unit is W3TKQ-5 for the fifth position. Assuming the dumb terminal again, at the CMD: prompt type C W3TKQ-5 <enter>. You will get the connect acknowledgment, however, if the operator is not looking at the screen, he will not know you are connected. *As of this writing we do not have an audible connect alarm.*

The BBS is used for National Traffic System message handling, personal mail forwarding via the packet network, and AMSAT and ARRL bulletins. The mailbox is good for messages to operators at W3TKQ, and for mail around the area, since the messages do not go any farther than the mailbox.

GOOD LUCK AND TRY OUR PACKET STATIONS!

THE W3TKQ REPORT

The International Voice of The Franklin Institute Science Museum

by
 Jake Kovalchek,
 AK2I

I'm writing this article on 12 June, 1992, and feel it important to share my thoughts with you regarding the front cover of QST for July, and the story of the "Rebirth of W3TKQ."

We have all gone through a great deal of effort, time, and money to provide the world, and especially the Delaware Valley area, with the treasures of W3TKQ. My promise to provide you with the most up-to-date, state-of-the-art amateur radio station has been fulfilled, and I am deeply grateful for the opportunity.

All have been very patient and understanding of some of the delays. Perhaps the most critical and frustrating was the delay we experienced in trying to convince The Institute that a "glass wall" was indeed needed badly for better exposure. In reality, it was conceived in my mind about one week after we started the station in March 1991. As you know, it took 14 months before the wall became a reality. Our thanks again go to our friend and contributor Mr. Henry Disston, without whose help all of this would have been impossible. Our thanks also to Mr. Bill Booth, VP of Exhibits at The Institute, whose keen eye for maximum contribution from his displays saw the need almost immediately. It was Bill who put the stamp of approval on my request.

THE TASK OF W3TKQ HAS NOW JUST BEGUN.

It must be exposed to the world as many hours as is possible. Currently The Institute is open 315 hours per month, while, *at best*, we have been averaging only 279 hours at the station [89%-Ed]. We must improve this figure, and I will continue to drive for more, *active* volunteers. Interesting to note is that 41 volunteers appear on our roster, however, only 27 of those volunteers are active [66%-Ed]. Some on the roster have never shown up after volunteering, even for one hour!

I will not be in town to share with you the excitement of the front cover story of QST magazine. Enjoy the glory of today when it comes to your home. If you don't get QST, then consider joining the ARRL, but in any case get yourself a copy of the magazine.

Phil-Mont is number one again! Let everyone know how you feel, because each of you, no matter how small or large your contribution of time or money, deserves every minute of pride and joy on reading the story. Relish the moment; I just wish I could be in the area to share your joy.

I'm proud to be a Phil-Monter. May the sands of time never diminish my feeling for all of you.

NEW HANDOUT HELPS EXPLAIN RADIO FREQUENCY INTERFERENCE

Hot off the press is a free ARRL pamphlet explaining radio frequency interference to the layman. Although intended to be handed to one's neighbor when an interference complaint arises, most amateurs will also find the hand-out a handy concise summary of RFI issues and well worth reading.

Here's the first paragraph your neighbor will read:

"As our lives become filled with more technology, the likelihood of unwanted electronic interference increases. Every lamp dimmer, hair dryer, garage-door opener, radio transmitter, microprocessor-controlled appliance or remote-controlled new technical 'toy' contributes to the electrical noise around us. Many of these devices also 'listen' to that growing noise and may react unpredictably to their electronic neighbors."

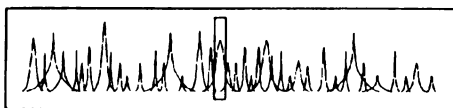
The pamphlet stresses cooperation. After pointing out various sources of electronic pollution, it says:

"With all of these possibilities, it is difficult to guess which type of problem is causing your interference. Usually, only a technical investigation can pinpoint the cause and suggest a solution. This is where a spirit of cooperation and trust will pay off! If you believe your equipment is picking up signals from a nearby radio transmitter, the operator may be able to help you both find a solution to a mutual problem."

The section entitled "Personalities" is worded in such a way ("you and your neighbor") that the points of view of either the "interferer" or the "interferee" become interchangeable. But make no mistake—the pamphlet emphasizes that many if not most cases of interference to consumer electronic

devices are the result of deficiencies in that equipment—without belaboring the point.

A single chart adds technical aura to the brochure:



Every electronic appliance must select only the desired signal while rejecting all others.

Finally, the brochure lists addresses for the ARRL, the Electronic Industries Association, and the FCC (in Washington), as well as a few suggested sources for high-pass, common-mode, and telephone interference filters.

The pamphlet is available in small quantities for an SASE from ARRL Headquarters; contact the ARRL RFI DESK for special arrangements if you wish to obtain large quantities.

The ARRL Letter

NEWSLETTERS EXCHANGED

Baltimore Radio Amateur Television Society (BRATS)
Cherryville Repeater Association (NJ)
Delaware-Lehigh Amateur Radio Club (DLARC)
Delmont Radio Club
EASTLINK
Mid-Atlantic Amateur Radio Club (MARC)
Mobile Sixers Radio Club
Penn Wireless Association
R F Hill Amateur Radio Club
Reading Radio Club
Sussex Amateur Radio Ass'n (SARA) (Delaware)
Tompkins County Amateur Radio Club (New York)
Warminster Amateur Radio Club
Worldradio Magazine

Exchanges with additional parties are welcomed.

This August 1981 "Prez Sez," written by AK2I, is reprinted here by request.

(Not much has changed in the last 11 years)

I listen, like many others, more than I talk, and I hear some stations identifying every single time they turn the repeater back to the other party, well within the ten minute time span allowed by the FCC. I counted one evening, and heard one station in QSO with just one other station, and in a six minute time span I heard them identify a total of 26 times! Surely a great deal of wasted repeater time, and a lot of wasted hot air (watts) and dull conversation to say the least.

Remember, you must identify when you begin your initial transmission, *[no longer required-Ed]* and again when you leave the air, but you are allowed a ten-minute time period before you identify again during that QSO. *[You never have to use the other station's call unless handling third-party traffic-Ed.]*

I calculated the time lost one evening after listening for six hours and hearing the

call signs whipped back and forth. The results are astonishing.

For example:

1. IDs were used 127 times for a total of 595.63 seconds or 9.9 minutes.
2. If this was used as a standard over one month, I calculate that the repeater would be available for an additional 29.7 minutes per day, or 920.7 minutes per month.
3. That's 15.3 hours of additional usable repeater time per month.
4. That's 11,048.4 minutes per year, for a total of 184 hours, or 10 more days of usable repeater time.

By the way, an exchange of calls took an average of 4.76 seconds, on which this study was to some degree, based.

Think about it guys and gals, it makes sense, and opens the air ways for perhaps emergency situations.

Digital Mid-Atlantic Radio Council KD3DE Node Table (North)

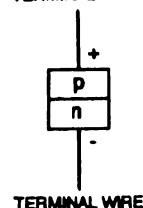
revised 10 June 92

Call	2 Meter	223.400	223.420	223.440	441.800	TCP/IP	Point to Point	NOTE
KTRQ80 KA300J-7	BANGR2 KA300J-12 145.70				BANGR4 KA300J-13		INEDA KA300J-14 NEDA	Southern Terminus of the NEDA Network
					ROSE X.25 N2EWW-2			Link to the NJ ROSE NETWORK
IBEAR8 KA311-6	BEAR82 KA311-2 145.05		BEAR83 KA311-3		BEAR84 KA311-4	IPAT1 KA311-8		
				NADC5 WA303P-6		IPNAL KNAL-8	NADC1 WA303P-1 A-9000-430	Area TCP/IP Switch Point to Point Links to WINNEX087
NJCHAT K2VFE-9	PHY44 K2VFE-13 145.00	RGNSNJ K2VFE-13					IKR11 K2L8X-11	Point to Point Links to EBN NODES
CHOB0 N2ABU-2	PHL144 W2ABU-2 145.03	BNLAN W2AMN-6			BNJ70 W2AMN-7	IPZZX W2ZZX-8		BNJ HUB
MRACES N3ACL-7 145.05				9SEPA3 N3ACL-3			9SEPA5 N3ACL-5	Point to Point Links to ABE & NEPA Nodes
PHLNET KD3DE-6	PHL2 KD3DE-2 141.81			PHL3 KD3DE-3	PHL4 KD3DE-4	IPDE KD3DE-8	PHL KD3DE-11 A-9000-430	EPANJ/DEL/MDC Hub 9000 Blvd from here to London
BNJQ80 W2AMN-6	SALEM2 W2AMN-2 145.84		SALEM3 W2AMN-3		SALEM4 W2AMN-4			
	DEX W3SEWK-3 145.05			DEWLM W3SEWK-3				
	ELK W3APR-11 145.01			ELK2 W3APR-11	ELK70 N40Q-7		ELK3 W3APR-8 B-1200-8M	The Bottle Neck
DCCOMV K3AF-10	DCA K3AF 145.07				DCAS K3AF-4		DCAS K3AF-6 B-1200-8M	Maryland/DCAVA Hub

Things and Ideas a Boy should know about ELECTRICITY.

PAGE 1

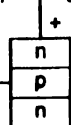
DIODE



TERMINAL WIRE
(Signal Input)
(But other arrangements of input and output also work)

NPN TRANSISTOR (JUNCTION TYPE X JUNCTION TYPE)

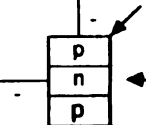
TERMINAL WIRE
(Output Signal)



TERMINAL WIRE
(Signal Reference)

PNP TRANSISTOR (JUNCTION TYPE X JUNCTION TYPE)

TERMINAL WIRE



Collector Region

Base Region
(Made very thin)

Emitter Region

Note that there are two kinds of junction transistors but only one kind of diode. Note also that a transistor has three wire connections whereas a diode only has two. Transistors are usually made from single crystal Silicon which has properties similar to Diamond except that it melts at a lower temperature and is accordingly easier to work with.

Benjamin Franklin discovered that there are two kinds of electricity.

In the n regions of the Silicon crystal the charges which flow are free electrons. In the p regions of the Silicon crystal the charges which flow are little pockets or absences of electrons called "holes". These holes act as if they have a positive charge. Electrons act like negative charges.

With respect to the flow of electricity there are three kinds of materials to know about.

- (1) Those in which electricity flows easily are called conductors.
- (2) Those in which electricity flows with great difficulty are called insulators.
- (3) There is a class of materials with properties in between those of a conductor and an insulator. These materials are called semi-conductors.

Silicon is only one of a great many such materials.

Transistors amplify electrical signals and this makes possible high-speed Logic.

Transistors and diodes have many practical applications.

They have also become very tiny and inexpensive.

The thin Base Region shown in the diagram above is typically only about one wavelength of light in dimension so it is about one one hundred thousandth of an inch thick. The length and the width of diodes and transistors can and are being made to similarly small dimensions.

For these reasons computer microprocessor and memory elements are being built today with millions of transistors.

These transistors cost now under one ten thousandth of a cent apiece and they are extremely reliable.

All this has led to small and inexpensive computers that use very large and sophisticated programs and to programs which aid one person to accomplish work by himself just as if he had a team of very expert specialist helpers right by his elbow.

Written by:

John Kane AB3C

For help to make use of this technology, Please call 642-1836

CLUB INFORMATION

24 Hour Information Number at W3TKQ

(215) 448-1139

Edward S. McVaugh, 84 Test Pilot for Amelia Earhart

Edward S. McVaugh of Willow Grove, a mechanic and test pilot for Amelia Earhart, died Thursday, June 4, at Abington Memorial Hospital. He was 84.

He was the husband of Edna Murphy McVaugh.

Born in Hatboro, he was a son of the late W.S. and Pamela Stackhouse McVaugh.

Mr. McVaugh was owner and operator of McVaugh's Ignition Shop in Willow Grove for 28 years.

He often flew with Miss Earhart, beginning with a promotional-flight for Beech-Nut departing from Newark, N.J., the day before Memorial Day 1931.

According to Mr. McVaugh's daughter, Sandra Dzurek of Ambler, on the trip back from the West Coast, the plane crashed and the two were stranded for several days until rescuers located them.

McVaugh made many other flights with the famous aviator in the 1930s, including several from Wings Field in Blue Bell and Pitcairn Field in Horsham.

Pitcairn Field was succeeded by the Wil-

low Grove Naval Air Station at Route 611 and County Line Road. Miss Earhart and her navigator disappeared in 1937 while attempting to fly around the world.

Mr. McVaugh was a mechanic and test pilot for Miss Earhart, but he did not have a pilot's license. Mrs. Dzurek said the laws of the day permitted test pilots to be unlicensed.

"He was a great father," Mrs. Dzurek said. "He was just a person to be proud of."

In the 1920s, Mr. McVaugh assisted Harold Pitcairn in the development of the autogyro, an aircraft later superseded by the helicopter.

During World War II, he was a civilian quality control inspector for the Army Air Corps.

Mr. McVaugh was a member of Hatboro Masonic Lodge and the Willow Grove Volunteer Fire Co. and Fire Police. He was a long-time ham radio operator.

Surviving besides his wife and daughter are a second daughter, Marlene Stauffer of Fort Myers, Fla.; eight grandchildren; and 11 great-grandchildren.

The Intelligencer/Record

Memories of Ed. by W3VVS

"The Pioneer," X749N, was the first stainless steel amphibian manufactured by Budd Company in Philadelphia. Today it rests on supports at the corner of 20th and Winter Streets, outside The Franklin Institute Science Museum. Ed made the initial radio installation in this aircraft many years ago.

When Phil-Mont first published the "TVI Retreat," [early 1950s-Ed] later known as "The BLURB," it was a limited edition (limited to 75 or 80 good copies) printed by a used spirit ditto machine purchased for \$15 from Philco Corporation. The machine was cleaned-up and used at Ed's home to print the monthly news of the club; printing, collating, and stapling for mailing was done at Ed and Edna's for many years.

When Phil-Mont was truly a "mobile" club, Ed helped us by allowing us to use his

garage facilities, located behind his house at 10 N. York Road, to troubleshoot our ailing engines. He gave us advice and help with our carburetors, distributors, and ignition problems. Some of our mobile hams had 6-volt Leese-Neville alternators which Ed serviced.

When Phil-Mont had the first "Spencer-built" W3RQZ communications trailer, we stored it behind Ed's shop when not in use for a field day or other communications exercise.

In later years, Ed was always available to answer phone calls from scanner listeners during our regular code-practice sessions on Tuesday nights.

Ed was acquainted with Wynn Lawrence LaPage, W3QCV, former president of the Franklin Institute, back in the early days of autogyro development, when Lawrence joined Pitcairn Aviation in 1927.



Edward S. McVaugh
W3LEM

Amateurs Concerned About RF Lightbulbs

A new rf-powered lightbulb design announced recently is not yet in production, nor are engineering samples available. Although the manufacturer, Intersource Technologies Inc. of Sunnyvale, California, says the bulbs are expected to meet FCC Part 15 rules regarding incidental interference, many radio amateurs have expressed concern about the bulbs.

A spokesman for General Electric Company's lighting division, quoted in the Washington Post, said GE felt the idea was not marketable at this time, citing concerns about possible interference to radio receiving devices, among others.

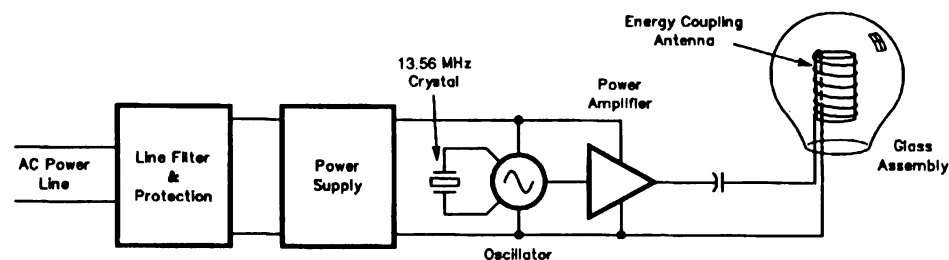
Tom Moore, a spokesman for Intersource, said the company had received a number of calls from amateurs, mostly neighbors in Silicon Valley, many of them offering to "beta test" bulbs when they become available.

Moore said he expects that the bulbs will have to be FCC type accepted. When asked about the possibility of a nearby transmitter lighting up one of the bulbs, he said it was Intersource's belief that it would take a transmitter many times the power of an Amateur Radio set to be able to do so.

The bulbs as currently envisioned would operate at 13.56 MHz, within the "Industrial, Scientific, and Medical" band. 25 watts of rf power would produce the same amount of light that an ordinary 100 watt incandescent bulb does. The bulbs would use a crystal oscillator, power amplifier, and a coil-type antenna to "couple high frequency electrical energy into a mercury vapor plasma."

The ARRL technical department will conduct tests on sample bulbs as soon as they are available.

The ARRL Letter



W3TKQ Operators' Net

The last Wednesday of every month.
Don't Miss It!

1992

JULY

1992

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 WA3AUN N3AXJ K3PHC GENERAL MEETING at The Franklin Institute Refreshments at 7:00 PM Meeting starts after 7:30	2 N3FV AK2I LICENSE EXAMS at The Franklin Institute Registration begins at 6:00 Doors close at 6:30 PM <i>sharp!</i>	3 WU3I W3LKI NS3Z	4 AG2H K3JJO K3TEF W3YLT <i>Independence Day</i>
5 AA2FU N2JFF WB3JUA WT3X NS3Y KT3Z 2M NCS K3JJO 10M NCS ANYONE 75M NCS W3PWG	6 W3PWG WU3I K3VXU	7 N3ALW W2GMA W3STW WT3P WU3I NS3Z	8 WA3AUN N3AXJ K3PHC	9 N3FV AK2I	10 WU3I W3LKI NS3Z	11 N3GMH AG2H K3TEF KA3WWK NS3Y
12 AA2FU N2JFF WB3JUA WT3X NS3Y KT3Z 2M NCS NS3Y 10M NCS ANYONE 75M NCS W3AOA <i>American Cancer Society Bikeathon</i>	13 W3PWG WU3I K3VXU	14 N3ALW W2GMA W3STW WT3P WU3I NS3Z	15 WA3AUN N3AXJ K3PHC DIRECTORS' MEETING at W3BBB's	16 N3FV AK2I	17 WU3I W3LKI NS3Z	18 N3GMH AG2H K3TEF KA3WWK NS3Y
19 AA2FU N2JFF WB3JUA WT3X NS3Y KT3Z 2M NCS NS3Z 10M NCS ANYONE 75M NCS W3RCE	20 W3PWG WU3I K3VXU	21 N3ALW W2GMA W3STW WT3P WU3I NS3Z	22 WA3AUN N3AXJ K3PHC <i>Edward Hopper born 1882</i>	23 N3FV AK2I	24 WU3I W3LKI NS3Z <i>Amelia Earhart born 1898</i>	25 N3GMH AG2H K3TEF KA3WWK NS3Y
26 AA2FU N2JFF WB3JUA WT3X NS3Y KT3Z 2M NCS KB3IV 10M NCS ANYONE 75M NCS AK2I <i>BRATS' Hamfest</i>	27 W3PWG WU3I K3VXU	28 N3ALW W2GMA W3STW WT3P WU3I NS3Z <i>World War I - 1914</i>	29 WA3AUN N3AXJ K3PHC  OPERATORS' NET at 8 PM	30 N3FV AK2I	31 WU3I W3LKI NS3Z <i>Everybody wants to go to heaven, but nobody wants to die.</i>	